

DaimlerChrysler AG

Abstract

The invention relates to a method and a device for joining a plane component (2) to a hollow section (1), wherein the component (2) and the hollow section (1) are inserted in an internal high pressure forming tool positioned in relation to each other and are connected through the subsequent aid of a fluidic high internal pressure in the hollow section (1). In order to achieve a connection between the plane component (2) and a hollow section (1) in a simple and process-controlled manner, it is suggested that while the high internal pressure is applied, the walls (3, 5) of the hollow section (1) and the component (2), which rest against and are supposed to be connected with each other, are pressurized such by means of a die (6) that is integrated in the forming tool that the wall (3) of the hollow section (1) is punched so that the created slug (7) is attached in a positive bonding manner to one area of the hole edge (8) and increases in terms of its width towards its free end (9), and in that a section in the form of a link (10), which has the same shape as the slug (7), is bent out of the wall (5) of the component (2) into the hollow section (1) in a position that undercuts the hole edge (8) of the hollow section (1).

(pursuant to Fig. 1a)